ABSTRACT

A single or multiple band quarter wave resonator antenna assembly for a communications device including a resonator element as a substrate element having disposed thereupon at least a pair of conductor trace elements. The conductor trace elements are disposed upon opposite sides of the substrate element and are operatively coupled to the communications device. The antenna assembly further including a separate conductive member having an approximate ¼ wavelength or greater dimension, which may be defined as the internal printed wiring board ground plane of the communications device.